

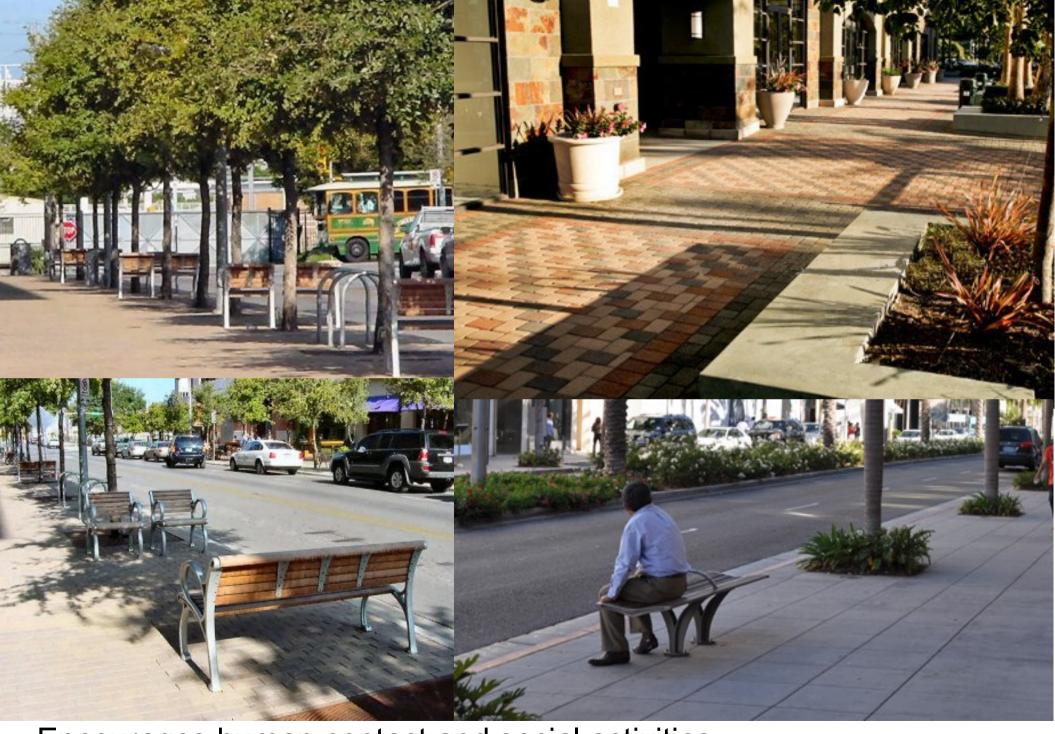


Street Form and Composition





Provides orientation to its users

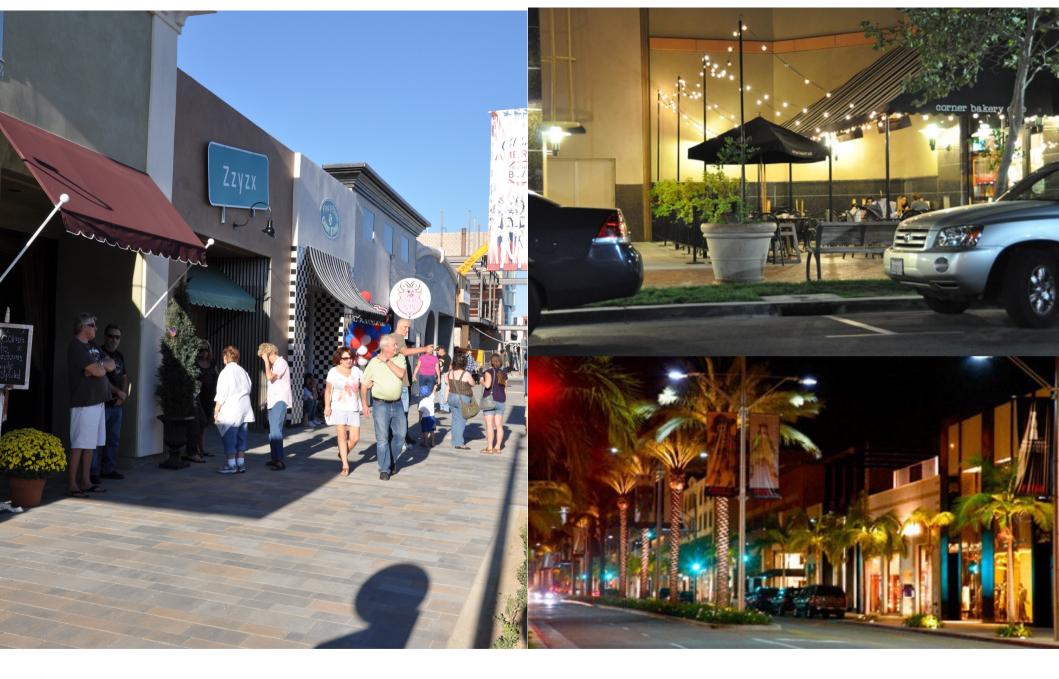


Encourages human contact and social activities



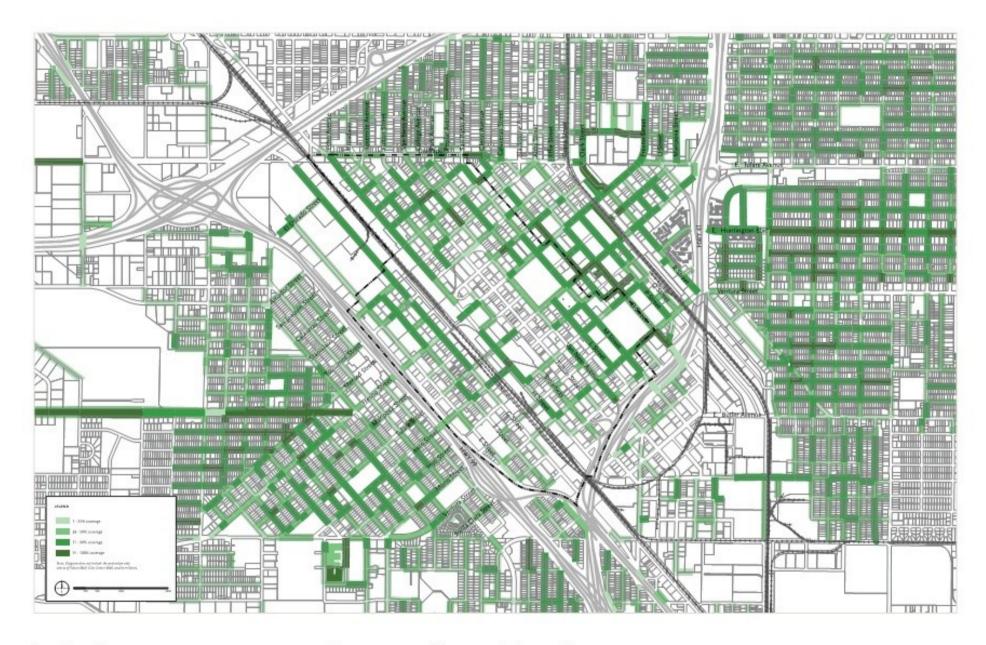
Employs hardscape and/or landscape to great effect





Supports use over the 24-hour day

The Public Realm Trees



CITY OF FRESNO, CALIFORNIA
FULTON CORRIDOR SPECIFIC PLAN AND
DOWNTOWN NEIGHBORHOODS COMMUNITY PLAN
25 SEPTEMBER 2010
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Through photosynthesis, trees lower city temperatures in the summer and change carbon dioxide into oxygen.

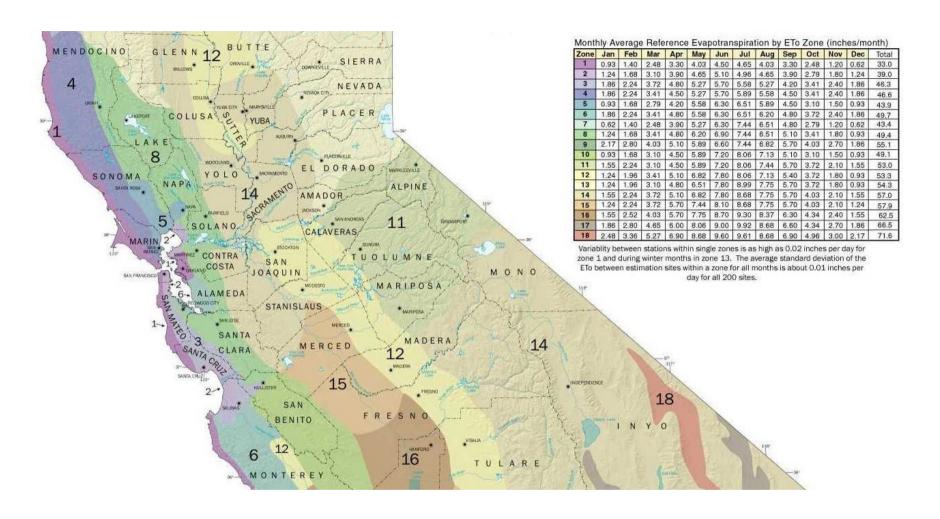
Temperature reductions of 5-15 degrees are felt when walking under tree canopied streets.

Volatile organic compounds (VOC) in the air react with oxides of nitrogen and sunlight to form ground ozone. Breathing air with ground ozone concentrations above air quality standards aggravates symptoms of people with pulmonary diseases and seems to increase rates of asthma attacks. Impacts are reduced significantly by tree canopies since ozone and VOC's are temperature dependent.

Trees in street proximity absorb 9 times more pollutants than more distant trees.

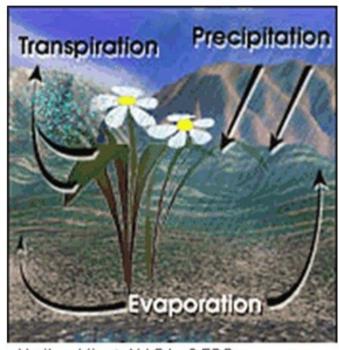
In a variety of California environments, studies conducted, show that the shade of street trees can add from 40-60% more life to asphalt. Longevity is based on reducing the daily heating and cooling of asphalt which causes expansion/contraction and eventual roadway deterioration.

Although care and maintenance of trees in urban places is a costly task, the value in returned benefits is so great that a sustainable community cannot be imagined without these important green features



The Public Realm Irrigation Needs

What is evapotranspiration?



Hailey King, NASA, GFSC

